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Listing of the Claims

- 1. (withdrawn) A system for manufacturing optical fiber, comprising:
- (a) a pregobbing apparatus having a furnace having a first temperature profile, the pregobbing apparatus adapted to provide a pre-optimized tip shape on the optical fiber preform, and
- (b) a draw furnace having a second temperature profile which is substantially equal to the first temperature profile, the draw furnace adapted to draw optical fiber from the preform having the pre-optimized tip shape.
- 2. **(withdrawn)** The system of Claim 1 wherein the pregobbing heating furnace includes an induction heater.
- 3. **(withdrawn)** The system of Claim 1 wherein the pregobbing heating furnace and a draw apparatus utilized to draw fiber from the preform each include an induction heater.
- 4. (withdrawn) The system of Claim 1 wherein the pregobbing furnace includes a temperature between about 1800 °C and 2000 °C.
- 5. (withdrawn) The system of Claim 1 wherein the pregobbing furnace includes a temperature between about 1900 °C and 1950 °C.
- 6. (withdrawn) The system of claim 1 wherein the pre-optimized tip shape includes a tip taper having a ratio of tip length to radius change over the tip length of between about 5 to about 12.
- 7. (withdrawn) The system of claim 1 wherein the pre-optimized tip shape includes a tip taper having a ratio of tip length to radius change over the tip length of between about 6 to about 9.

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8. (withdrawn) A system for manufacturing an optical fiber preform, comprising:

a pregobbing furnace adapted to heat the optical fiber preform and cause a glass to be removed, the pregobbing furnace having a temperature profile that is substantially equal to a temperature profile of a draw furnace utilized in a subsequent process to draw fiber from the preform.

9. **(withdrawn)** A system for manufacturing an optical fiber preform, comprising:

a pregobbing furnace adapted to heat the optical fiber preform and cause a glass to be removed to form a pre-optimized draw tip on the preform, the pregobbing furnace having a temperature profile substantially equal to a temperature profile of a separate draw furnace to draw fiber from the preform.

- 10. (previously presented) A method for manufacturing an optical fiber preform, comprising the steps of:
- (a) heating a consolidated optical fiber preform within a chamber of a heating furnace having a first temperature profile of a hot zone of the heating furnace to allow a gob to drop under the influence of heat and gravity,
- (b) removing additional glass from the preform in the heating furnace until a draw tip having a pre-optimized tip shape is formed, and
- (c) transferring the preform to a draw furnace of a draw apparatus wherein a second temperature profile of a hot zone within the draw furnace is substantially identical to the first temperature profile.

11. (canceled)

- 12. (previously presented) The method of claim 10 wherein the step of heating is accomplished by at least one induction coil heating the preform.
- 13. (previously presented) A method for manufacturing an optical fiber preform, comprising the steps of:

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a) heating a consolidated optical fiber preform within a chamber of a heating furnace having a first temperature profile of a hot zone of the heating furnace to allow a gob to drop under the influence of heat and gravity,

- b) removing additional glass from the preform in the heating furnace until a draw tip having a pre-optimized tip shape is formed wherein the pre-optimized tip shape includes a tip taper having a ratio, defined as tip length divided by radius change over the tip length, of between about 5 to about 12, and
- c) transferring the preform to a draw furnace of a draw apparatus wherein a second temperature profile of a hot zone within the draw furnace is substantially identical to the first temperature profile.
- 14. (previously presented) A method for manufacturing an optical fiber preform, comprising the steps of:
- a) heating a consolidated optical fiber preform within a chamber of a heating furnace having a first temperature profile of a hot zone of the heating furnace to allow a gob to drop under the influence of heat and gravity,
- b) removing additional glass from the preform in the heating furnace until a draw tip having a pre-optimized tip shape is formed wherein the pre-optimized tip shape includes a tip taper having a ratio, defined as tip length divided by radius change over the tip length, of between about 6 to about 9, and
- c) transferring the preform to a draw furnace of a draw apparatus wherein a second temperature profile of a hot zone within the draw furnace is substantially identical to the first temperature profile.
- 15. (previously presented) The method of Claim 10 wherein the step of heating includes heating the heating furnace to a temperature between about 1800 °C and 2000 °C.
- 16. (previously presented) The method of Claim 10 wherein the step of heating includes heating the heating furnace to a temperature between about 1900 °C and 1950 °C.

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17. (previously presented) A method of making an optical fiber preform, comprising the steps of:

prior to drawing optical fiber from the preform in a draw furnace, heating a tip of the preform in a pregobbing heating furnace separate from the draw furnace to form a preoptimized draw tip on the preform, said pre-optimized draw tip after being formed having a tip taper with a ratio, defined as tip length divided by radius change over the tip length, of between about 5 to about 12, and causing a temperature profile of a hot zone of the pregobbing furnace to be substantially equal to a temperature profile of a hot zone of the draw furnace.

18. (canceled)

- 19. (previously presented) The method of claim 17 wherein the pre-optimized draw tip after being formed includes a tip taper having a ratio, defined as tip length divided by radius change across the tip length, of between about 6 to about 9.
- 20. (previously presented) A method for manufacturing an optical fiber, comprising the steps of:

heating a consolidated optical fiber preform within a pregobbing apparatus including an induction furnace having a first temperature profile of a hot zone of the pregobbing apparatus to form pre-optimized shape preform tip, and

transferring the preform to a draw apparatus including an induction furnace and drawing optical fiber therefrom, the draw apparatus having a second temperature profile of a hot zone of the draw apparatus substantially equal to the first temperature profile.

21. (previously presented) A method for manufacturing an optical fiber, comprising the steps of:

heating a plurality of consolidated optical fiber preforms within a plurality of pregobbing apparatus, each apparatus including an induction furnace having a first temperature profile in a hot zone thereof to form pre-optimized shape preform tip on each of the plurality of preforms, and

transferring the plurality of preforms to a plurality of draw apparatus, each including an induction furnace and drawing optical fiber therefrom, the plurality of draw

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furnaces each having a second temperature profile in a hot zone thereof substantially equal to the first temperature profile.

22. **(original)** The method of claim 21 wherein there are a lesser number of pregobbing apparatus than draw apparatus.

Claims 23-26. (canceled)